

Amendments to the Specification:

Please replace paragraph [0030] with the following amended paragraph:

[0030] It will be appreciated that the volume of fluid pumped through a tube 30 positioned in tube-receiving portion 26 with each movement of blade 102 into its first position will be dependent upon (i) the length and width of leading edge 104 of blade 102; and (ii) the cross-sectional dimensions of the tube. The width of leading edge 104 of blade 102 preferably is selected such that leading edge 104 substantially collapses a tube 30 positioned in tube-receiving portion 26 along a length of leading edge 104 when blade 102 is in its first position, thereby minimizing the amount of residual fluid left in the tube during each compression of the tube by blade 102. The length and width of leading edge 104 of blade 102 are selected to provide a desired range of flow volumes upon each stroke of blade 102. The length of leading edge 104 of blade 102 is preferable preferably between about 2 cm. and about 12 cm.

Please replace paragraph [0033] with the amended paragraph shown below:

[0033] In a first embodiment of pump 10 present invention, as shown in FIG. 2, door 28 defines a surface 40 constructed to substantially limit movement of tube 30 when a compressive force is applied to tube 30 by any of blade 102, first occlusion member 106, and second occlusion member 108. Surface 40 preferably is arcuate in cross-section, the arc having a diameter substantially equal to the exterior diameter of a tube 30 to be positioned in tube-receiving portion 26, thereby ensuring that surface 40 substantially prevents movement of tube 30 away from blade 102, first occlusion member 106, and/or second occlusion member 108 during operation of pump 10. The surface 40 can also be defined by an arcuate recess or elongated groove 42 formed on door 28 between first and second tube-access apertures apertures 36, 38. The groove 42 can have a curved or flat bottom surface and opposing sides with a radius blending the bottom surface with each of the sides. The width of the groove 42 is preferably sufficient to accommodate the requisite collapsing or flattening of the tube 30 during compression by the blade 102 and occlusion members 106, 10-108. Preferably the groove 42 that defines the surface 40 is arcuate in cross-section and constructed to engage at least 120° of the circumferential exterior surface of a length of a tube 30 disposed in said tube set receiving portion 26. It will be appreciated that arcuate recess 42 defined by door 28 cannot provide more than approximately 180° of circumferential constraint for tube 30 without making it difficult

for a pump operator to place tube 30 in tube-receiving portion 26 of pump 10. For this reason, a tube set 60 constructed in accordance with a second embodiment of the present invention as described below is beneficial.

Please replace paragraph [0036] with the following amended paragraph:

[0036] Tube 30 of tube set 60 also includes a second end portion 54 constructed to be connected directly or ~~in a~~ directly to a patient, thereby enabling the delivery of the fluid to the patient. For example, second end portion 54 may include a catheter configured for insertion into a patient's circulatory system, or a gastrostomy or nasogastric tube constructed for insertion into a patient's gastrointestinal tract, or second end portion 54 may be configured for fluid connection to such a catheter or tube. Tube 30 can be constructed of a variety of known materials, e.g., silicone or polyvinyl chloride (PVC). In a preferred embodiment of the present ~~invention~~ tube ~~invention~~ tube 30 is constructed from PVC.